persistent. Corolla ovate or urceolate, white with a reddish tinge, transparent at base, contracted at the mouth, hairy inside, with five short, reflexed segments. Stamens inserted at the base of the corolla with hairy filaments, and anthers with two horns and two pores in each. Germ round, style straight, longer than the stamens, stigma simple. Nectary a black indented ring, situated below the germ, and remaining till the fruit is ripe. Berries globular, depressed, of a deep red, approaching scarlet, containing an insipid, mealy pulp, and about five seeds, which in the American plant cohere strongly together, so as to appear like the nucleus of a drupe.

The leaves and stems of the Uva ursi are used in Sweden and Russia for the purpose of tanning leather. According to Linnæus, large quantities are annually collected for this use.

When chewed in the mouth, the leaves have an astringent taste, combined with some degree of bitterness. The result of such chemical trials as I have made with them, shews that they abound in tannin, which is probably their chief active constituent. A solution of gelatin occasions a copious precipitate; sulphate of iron an equally copious one of a black colour. Nitrate of mercury and lime water gave large precipitates from the

decoction, the first of a light green, the last of a brownish colour. Of the existence of gallic acid, at least as it exists in galls, I have found no sufficient proof. The decoction does not redden vegetable blues, and the black precipitate with the sulphate of iron soon subsides, leaving the fluid nearly colourless. The quantity of resin, mucous matter and extractive, provided they exist in this plant, must be minute; since the decoction was not rendered turbid by the addition of alcohol or ether, nor the tincture by the addition of water, although after standing twenty four hours, some slight flocculi appeared. Muriate of tin produced no precipitation from the decoction, though it gave one from the tincture. Acetite of lead and nitrate of silver gave large precipitates. Water distilled from this plant, suffered no change with sulphate of iron, or muriate of tin.

Professor Murray of Gottingen, finding a greater amount of soluble matter taken up by water than by alcohol, considers the former as the best menstruum for this article. A similar inference from the American plant was made by Dr. John S. Mitchell in an inaugural dissertation, published at Philadelphia in 1803. For medical uses, Murray prefers the decoction to the infusion.

JACOB BIGELOW *American Medical Botany* BOSTON, 1817-1820 CARY GRAPHIC ARTS COLLECTION, ROCHESTER INSTITUTE OF TECHNOLOGY Octavo